

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of the claims in this application:

Listing of the Claims:

Claims 1-10. (Cancelled).

11. (Currently amended) An assembled implant for implantation between adjacent vertebrae in the spine of a patient comprising two or more threaded sections of cortical bone that are joined together in tandem by pins interconnecting said threaded sections to form an elongated body having a first end for initially engaging adjacent vertebrae and a second end that is slotted for engaging a driving and securing device,

wherein said elongated body comprises a continuously tapered and threaded surface from about 5 mm to about 25 mm in length.

12. (Previously presented) The implant of claim 11, wherein said implant is comprised of two threaded sections of cortical bone.

13. (Previously presented) The implant of claim 11, wherein said two or more sections of cortical bone comprise joining holes formed therein such that said two or more sections are joined together by insertion of said pins through said joining holes.

14. (Previously presented) The implant of claim 13, wherein said pins are cortical bone.

15. (Cancelled).

16. (Previously presented) The implant of claim 11, wherein said cortical bone is obtained from a bone selected from the group consisting of femur, tibia, fibula, humerus, radius and ulna.

17. (Previously presented) The implant of claim 11, comprising a channel formed in said elongated body, to aid in delivery of a biologically active substance disposed on or within the implant to surrounding tissue.

18. (Previously presented) The implant of claim 17, wherein said biologically active substance comprises one or more substances selected from the group consisting of cells, growth factors, antibiotics, nucleic acids, proteins, peptides, antineoplastics, and anti-inflammatory compounds.

19. (Previously presented) The implant of claim 11, wherein said cortical bone is human allograft bone or xenograft bone.

20. (Currently amended) An assembled implant comprising an elongated body having a first end for initially engaging adjacent vertebrae and second end that is slotted for engaging a driving and securing device,

said elongated body comprising two threaded sections of cortical bone connected in tandem by two pins to form a continuously tapered and threaded surface from about 5 mm to about 25 mm in,

wherein said continuously tapered and threaded surface begins at a first position on or proximate to said first end and extends throughout the length of said elongated body down to a second position on or proximate to said second end.

21. (Cancelled).

22. (Previously presented) The implant of claim 20, comprising a channel formed through said elongated body such that said channel is positioned transverse to the longitudinal axis of said implant, said channel suitable to having a biologically active substance disposed therein.

23. (Previously presented) A method for fusing vertebrae comprising,

making a space between the vertebrae to be fused, and inserting into said space an assembled implant, said implant comprising two threaded sections of cortical bone connected in tandem by two bone pins to form an elongated body having first end ~~for engaging a driving and securing device and second end~~ for initially engaging adjacent vertebrae, and a second end that is slotted for engaging a driving and securing device,

wherein said elongated body comprises a continuously tapered and threaded surface from about 5 mm to about 25 mm,

wherein said continuously tapered and threaded surface begins at a first position on or proximate to said first end and extends throughout the length of said elongated body down to a second position on or proximate to said second end,

wherein inserting said biomedical implant into said space between the vertebrae allows said vertebrae to become fused.

24. (Cancelled).

25. (Previously presented) The implant of claim 20, wherein said two pins are two cortical bone pins.

26. (Cancelled) The implant of claim 20, wherein said second end for engaging a driving and securing device is slotted.